

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (Canceled)

21. (New) A shark cartilage extract with anti-PHF activity, wherein the shark cartilage extract is produced by the following steps:

extracting cleaned, dried, ground shark cartilage with H₂O at a temperature between

85-120°C for 2-4 hours,

centrifuging the resulting suspension 1 at between 5200 to 5700 rmp to separate the suspension into supernatant 1 and pellet,

holding the supernatant 1 in a cooling tank 4-8°C,

extracting the pellet a second time with H₂O at a temperature between 85-120°C for 2-4 hours,

centrifuging the resulting suspension 2 at between 5200-5700 rpm to separate the suspension into supernatant 2 and pellet;

pooling supernatant 1 with supernatant 2, and

lyophilizing the pooled supernatants to obtain the shark cartilage extract.

22. (New) The shark cartilage extract according to claim 21, further comprising cooling said suspension 1 and suspension 2 to between 40-60°C when said suspensions are at a temperature greater than 60°C.

23. (New) A pharmaceutical composition comprising shark cartilage extract with anti-parathyroid hypertensive factor activity according to claim 21 and a pharmaceutically acceptable carrier.

24. (New) A pharmaceutical composition comprising shark cartilage extract with anti-parathyroid hypertensive factor activity according to claim 21, an antihypertensive substance and a pharmaceutically effective carrier.

25. (New) The extract according to claim 21, wherein said extract is composed of 5-30% protein, 15-80% mucopolysaccharides and 1-20% Chondroitin Sulfate C.

26. (New) A method for treating hypertension comprising administering to a patient in need of such treatment, an anti-hypertensive effective amount of shark cartilage extract according to claim 21.

27. (New) The method according to claim 26, wherein said amount is 0.1-20 mg/kg body weight.

28. (New) A method for treating a disease related to excessive PHF comprising administering to a patient in need of such treatment, an amount of shark cartilage extract according to claim 21 effective to treat said disease.

29. (New) A method for treating a disease related to intracellular calcium elevation comprising administering to a patient in need of such treatment, an amount of shark cartilage extract according to claim 21 effective to treat said disease.
30. (New) A method for counteracting the activity of parathyroid hypertensive factor, comprising administering an effective amount of shark cartilage extract according to claim 21 with anti-parathyroid hypertensive factor.
31. (New) A method for producing a purified shark cartilage extract with anti-parathyroid hypertensive factor activity, comprising the steps of:
- extracting cleaned, dried, ground shark cartilage with H₂O at a temperature between 85-120°C for 2-4 hours,
 - cooling the resulting suspension to between 40-60°C, centrifuging the cooled suspension at between 5200-5700 rpm to separate the suspension into supernatant 1 and pellet,
 - holding the supernatant 1 in a cooling tank at 4-8°C,
 - extracting the pellet a second time with H₂O at a temperature between 85-120°C for 2-4 hours,
 - cooling the resulting suspension to between 40-60°C,
 - centrifuging the cooled suspension at between 5200 to 5700 rpm to separate the suspension into supernatant 2 and pellet,
 - pooling supernatant 1 with supernatant 2, and
 - spray drying the pooled supernatants to obtain the shark cartilage extract.

32. (New) The method according to claim 31, wherein said extracting steps are conducted at 95°C for 2 hours.
33. (New) The method according to claim 31, wherein a decanter centrifuge is used in said centrifuging steps.
34. (New) The method according to claim 31, further comprising concentrating the pooled supernatants until a solids content of between 8-10% is reached.
35. (New) A method for inhibiting vascular smooth muscle cell proliferation, comprising administering to a patient in need of such treatment, an amount of the extract according to claim 21 effective to inhibit vascular smooth muscle cell proliferation.